Case 3008

Euchilus Sandberger, 1870 and *Stalioa* Brusina, 1870 (Mollusca, Gastropoda): proposed designation of *Bithinia deschiensiana* Deshayes, 1862 and *Paludina desmarestii* Prévost, 1821 as the respective type species, with the conservation of *Bania* Brusina, 1896

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Abstract. The purpose of this application is to conserve the names of three fresh- and brackish-water Tertiary prosobranch gastropod genera in their accustomed usage. *Bithinia deschiensiana* Deshayes, 1862 is proposed as the type species of *Euchilus* Sandberger, 1870 and *Paludina desmarestii* Prévost, 1821 as the type species of *Stalioa* Brusina, 1870. These actions, and the suppression of *Stoliva* Fuchs, 1877 and *Stalioia* Fischer, 1885, are proposed to conserve *Bania* Brusina, 1896, to avoid the need for a new name for *Euchilus* as used in its accustomed sense, and to prevent the names *Euchilus* and *Stalioa* being applied to taxa other than those used by the majority of authors.

Keywords. Nomenclature; taxonomy; Gastropoda; HYDROBIIDAE; Tertiary prosobranch gastropods; *Euchilus*; *Stalioa*; *Bania*; *Euchilus deschiensianus*; *Stalioa desmarestii*; *Bania prototypica*.

1. The nominal genera *Euchilus* Sandberger, 1870, *Stalioa* Brusina, 1870 and *Bania* Brusina, 1896 were reviewed by Kabat & Hershler (1993) and by Kadolsky (1993). The position of each name is here considered in turn, and Commission action is proposed to conserve those names in their accustomed usage.

Euchilus Sandberger, 1870

2. The nominal genus *Euchilus* was established by Sandberger in a large work entitled *The Land and Freshwater Molluscs of the Past World*. This appeared in 12 livraisons between 1870 and 1875, the plates with species names engraved usually preceding the text. In livraison 2/3 (published in 1870) the name '*Euchilus Desmarestii* Prév. sp.' was published as legend to plate 11, figure 10, thereby making *Paludina desmarestii* Prévost, 1821 (p. 426) type species of *Euchilus* by monotypy. In livraison 4/5 (1871) Sandberger introduced the binomen '*Euchilus Deschiensianum* Deshayes, sp.' in the legend to plate 13, figure 8. The first time the name *Euchilus* appeared in the text (as opposed to the plates) was in livraison 6/8 (1872) where (p. 225) *Bithinia deschiensiana* Deshayes, 1862 (p. 492) was given as 'type'.

3. Subsequent authors have variously considered *Paludina desmarestii* Prévost, 1821 or *Bithinia deschiensiana* Deshayes, 1862 as the type species of *Euchilus*. The majority of authors (e.g. Clessin, 1880; Cossmann, 1888; Schlickum, 1968 (but not 1961, 1965); Kabat & Hershler, 1993; Kadolsky, 1993) accept *Bithinia deschiensiana*

as the type species, even though the fixation of *Paludina desmarestii* has priority; it is all the more desirable to maintain this use as there is no alternative name available for a genus-group taxon including *Bithinia deschiensiana* (see Kadolsky, 1993). It is therefore proposed that *B. deschiensiana* should be taken as the type species of *Euchilus*.

Stalioa **Brusina, 1870**

4. Brusina (1870, p. 937) established the nominal genus *Stalioa* with a brief description, here translated from the German, of an unnamed new fossil species from Dalmatia: '... [Together] with *Emmericia canaliculata* [a new species described in the same paper] I also found a single, globular, completely smooth species, with a strongly folded aperture margin, often with 1–2 folds on the spira, which belongs neither to *Emmericia* nor to *Fossarulus* and has only with *Amnicola* some similarity; for this [species] I propose a new genus'. This unnamed new species is the only one definitely included in *Stalioa*, which was therefore established without originally included nominal species. Brusina mentioned several species as most likely belonging to *Stalioa* but refrained from including them definitely because he had not himself seen specimens; amongst such species were *Bithinia deschiensiana* Deshayes and *Paludina desmarestii* Prévost, but under Article 67g of the Code they are not 'originally included species'.

5. The first subsequent inclusion of a nominal species was made by Brusina (1872, p. 144) when he gave a name to the unnamed species of his 1870 paper. He wrote (translation from Serbo-Croatian): '*Stalioa prototypica* Brus., about 20 individuals, is not only a new species, but I also took the liberty to make a new genus from this species (l.c. p. 937) ...'. This was the first unqualified inclusion of a nominal species in *Stalioa*; the specific name is made available by reference to the description of 1870. Another specific name mentioned in this paper, that of *Stalioa valvatoides*, was a nomen nudum. Under Article 69a(vii) of the Code *Stalioa prototypica* Brusina, 1872 is type species of *Stalioa* by subsequent monotypy.

6. Brusina (1874) described more fully and figured *Stalioa prototypica* (pp. 43–44, pl. 4, figs. 11–12); he also for the first time described and figured *S. valvatoides* (p. 44, figs. 9–10), thereby making it available. Brusina again only provisionally attributed *desmarestii* Prévost, *deschiensiana* Deshayes and other species to *Stalioa*, as he still had no material for study. Clessin (1880, p. 183) designated *Stalioa valvatoides* as type species of *Stalioa*. This designation is invalid since *S. valvatoides* was not an available name when first (1872) included in *Stalioa* and, furthermore, through Brusina (1872) the type species was already established by monotypy as *Stalioa prototypica*.

7. Cossmann (1893, p. 15) gave *Paludina desmarestii* Prévost as type species of *Stalioa*, apparently after correspondence with Brusina. This type designation has been generally accepted (e.g. Dollfus, 1912; Roman, 1912; Cossmann & Peyrot, 1919; Cossmann, 1921; Wenz, 1926, 1939; Glibert, 1949, 1962; Kabat & Hershler, 1993; Kadolsky, 1993). It is proposed that *Paludina desmarestii* should be taken as the type species of *Stalioa*, because of this usage and because of the situation described in para. 8 below. Schlickum (1968, p. 53) proposed the subgeneric name *Sandbergeriella* with *P. desmarestii* as type species. This action was based on the erroneous assumption that a replacement name for *Stalioa* Auctorum was needed, because

Schlickum (1960, 1961) thought *Emmericia canaliculata* Brusina to be the type species of *Stalioa* by monotypy. This is clearly an error, although it is easy to see how Brusina's wording, quoted in para. 4 above in literal translation, gave rise to such a misunderstanding. *Stalioia* Fischer, 1885 (p. 731) was an unnecessary replacement name for *Stalioa*, introduced for linguistic reasons, and hence a junior objective synonym available with its own author and date. *Stalioia* predates *Bania* Brusina, 1896 (see below), but the designation of *Paludina desmarestii* as the type species of *Stalioa*, and hence of *Stalioia*, means that *Bania* is not invalidated.

Bania Brusina, 1896

8. Brusina (1896, p. 130), in a complete reversal of his earlier actions, introduced a new generic name *Bania* with *Stalioa prototypica* as type species by monotypy. However, *S. prototypica* is formally the type species of *Stalioa* (see para. 5 above), making *Bania* a junior objective synonym of *Stalioa*. *Bania* is in current, albeit infrequent, use (e.g. Wenz, 1926, 1939; Kabat & Hershler, 1993; Kadolsky, 1993), and will be conserved by the designation proposed in para. 7 above of *Paludina desmarestii* as type species of *Stalioa* instead of *S. prototypica*. *Bania* is threatened by the nominal genus *Stoliva* Fuchs, 1877 (p. 682 and table opposite p. 700), which was introduced in the combinations *Stoliva prototypica* Brusina and *Stoliva valvatoides* Brusina. *Stoliva* could be interpreted as an incorrect subsequent spelling of *Stalioa*, but could alternatively be treated as a new nominal genus in which case it would be a senior subjective synonym of *Bania*; its suppression is proposed.

9. The International Commission on Zoological Nomenclature is accordingly asked:

(1) to use its plenary powers:
  (a) to set aside all fixations of type species for the following nominal genera:
    (i) *Euchilus* Sandberger, 1870 prior to that by Sandberger (1872) of *Bithinia deschiensiana* Deshayes, 1862;
    (ii) *Stalioa* Brusina, 1870 prior to that by Cossmann (1893) of *Paludina desmarestii* Prévost, 1821;
  (b) to suppress the generic name *Stoliva* Fuchs, 1877 for the purposes of the Principle of Priority but not for those of the Principle of Homonymy;
(2) to place the following names on the Official List of Generic Names in Zoology:
  (a) *Euchilus* Sandberger, 1870 (gender: masculine), type species by subsequent designation by Sandberger (1872) *Bithinia deschiensiana* Deshayes, 1862 by the ruling in (1)(a)(i) above;
  (b) *Stalioa* Brusina, 1870 (gender: feminine), type species by subsequent designation by Cossmann (1893) *Paludina desmarestii* Prévost, 1821 by the ruling in (1)(a)(ii) above;
  (c) *Bania* Brusina, 1896 (gender: feminine), type species by monotypy *Stalioa prototypica* Brusina, 1872;
(3) to place the following names on the Official List of Specific Names in Zoology:
  (a) *deschiensiana* Deshayes, 1862, as published in the binomen *Bithinia deschiensiana* (specific name of the type species of *Euchilus* Sandberger, 1870);

  - (b) *desmarestii* Prévost, 1821, as published in the binomen *Paludina desmarestii* (specific name of the type species of *Stalioa* Brusina, 1870);
  - (c) *prototypica* Brusina, 1872, as published in the binomen *Stalioa prototypica* (specific name of the type species of *Bania* Brusina, 1896);
- (4) to place the following names on the Official Index of Rejected and Invalid Names in Zoology:
  - (a) *Stoliva* Fuchs, 1877, as suppressed in (1)(b) above;
  - (b) *Sandbergeriella* Schlickum, 1968 (a junior objective synonym of *Stalioa* Brusina, 1870);
  - (c) *Stalioia* Fischer, 1885 (an unnecessary replacement name and junior objective synonym of *Stalioa* Brusina, 1870).

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